

Flood Control Project Maintenance
2012 Structure Summary Report
Overall Unit and Item Ratings

Lake County Watershed Protection District

Clover Creek Diversion Structure

Overall Unit Rating	Rated Item	Item Rating
M	Photo Documentation	N
	Vegetation & Obstructions	M
	Shoaling / Sedimentation	M
	Erosion / Bank Caving	A
	Revetments	N
	Encroachments	A
	Culverts: Inlets / Outlets	M
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Trash Racks	N
	Flap Gates	A
	Sluice/Slide Gates	A
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	N
	Concrete Tilting / Settlement	N
	Concrete Foundations	N
	Security Fencing	N
	Closure Structures	N
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	N
	Safety	M

Flood Control Project Maintenance**2012 Structure Summary Report****Overall Unit and Item Ratings****Lake County Watershed Protection District (cont.)****Highland Canal Diversion Weir And Drainage Structure**

Overall Unit Rating	Rated Item	Item Rating
A	Photo Documentation	N
	Vegetation & Obstructions	M
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments	N
	Encroachments	M
	Culverts: Inlets / Outlets	M
	Culverts: Breaks / Holes / Cracks	A
	Metal Pipes	A
	Trash Racks	N
	Flap Gates	A
	Sluice/Slide Gates	N
	Electric Gate Operators	N
	Manual Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Security Fencing	N
	Closure Structures	A
	Trash Rakes	N
	Other Metallic Items	N
	Monolith Joints	A
	Safety	A

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lake County Watershed Protection District**

Structure
Clover Creek Diversion Structure

Structure Rating	M
Date of Inspection	7/25/2012
DWR Inspector	Pavel Kazi
Accompanied By	Thomas Smythe Lake County

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/25/2012 07/25/2012	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: Clover Creek Diversion Structure has three culverts with two flap and slide gates to divert the water during high water season.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		M	Inspector Comments: The channel had vegetation and scattered obstructions.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	2 Y
3	0.00	0.00	Structures	Shoaling / Sedimentation		M	Inspector Comments: Minimal amount of shoaling and sedimentation were present on the channel.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	3 Y
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: There was no visible active erosion or bank caving observed.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	4
5	0.00	0.00	Structures	Revetments		N	Inspector Comments: No existing revetment was found.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	5
6	0.00	0.00	Structures	Encroachments		A	Inspector Comments: No trash or debris were present in the channel.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	6
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		M	Inspector Comments: Vegetation and sediment were blocking the culvert inlet and outlet.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: There were no visible holes or cracks in the culvert.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	8
9	0.00	0.00	Structures	Metal Pipes		A	Inspector Comments: The metal pipes appeared to be in good condition.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	10
11	0.00	0.00	Structures	Flap Gates		A	Inspector Comments: Flap gates appeared to be in good condition.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	11
12	0.00	0.00	Structures	Sluice/Slide Gates		A	Inspector Comments: The slide gates appeared to be in good working condition.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	12 Y
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: The manual gate operator appeared to be operational.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	14 Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/25/2012 07/25/2012	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	0.00	0.00	Structures	Concrete Surfaces		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	15
16	0.00	0.00	Structures	Concrete Tilting / Settlement		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	16
17	0.00	0.00	Structures	Concrete Foundations		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	18
19	0.00	0.00	Structures	Closure Structures		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	21
22	0.00	0.00	Structures	Monolith Joints		N	Inspector Comments: This item does not apply to this inspection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	22
23	0.00	0.00	Structures	Safety		M	Inspector Comments: The wood railing around the structure was not sturdy but appeared to provide fall protection.	39.177050 ° -122.898750 °	39.177050 ° -122.898750 °	23 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/25/2012 07/25/2012	Pavel Kazi

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

View of the diversion structure.

pkazi_t_20120813_200.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions

View of the vegetation at the diversion structure.

pkazi_t_20120813_203.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions

View of the vegetation at the structure inlet.

pkazi_t_20120813_209.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/25/2012 07/25/2012	Pavel Kazi

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Shoaling / Sedimentation

View of the channel.

pkazi_t_20120813_202.jpg



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets

View of the culvert inlet.

pkazi_t_20120813_204.jpg



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets

View of the culvert outlet.

pkazi_t_20120813_205.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Clover Creek Diversion Structure		07/25/2012 07/25/2012	Pavel Kazi

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Sluice/Slide Gates

View of the slide gate.

pkazi_t_20120813_206.jpg



Levee Mile Report Line	14
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Manual Gate Operators

View of the manual gate operator.

pkazi_t_20120813_207.jpg



Levee Mile Report Line	23
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Safety

View of the guard rail.

pkazi_t_20120813_208.jpg



*** Location**

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C : Corrected

Flood Control Project Maintenance**Unit Cover Sheet****2012 Structure Inspection Results****Lake County Watershed Protection District**

Structure
Highland Canal Diversion Weir And Drainage Structure

Structure Rating	A
Date of Inspection	7/25/2012
DWR Inspector	Pavel Kazi
Accompanied By	Brian Stringer Sutter Maintenance Yard

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure		07/25/2012 07/25/2012	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.00	0.00	Structures	Photo Documentation		N	Inspector Comments: Highland Canal Diversion Weir works as a control point that diverts water through a culvert during high water season.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	1 Y
2	0.00	0.00	Structures	Vegetation & Obstructions		M	Inspector Comments: There were vegetation growth such as cat tails and bushes in the structure which might impede the flow of the water through the culvert.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	2 Y
3	0.00	0.00	Structures	Shoaling / Sedimentation		A	Inspector Comments: No Shoaling or sedimentation was present.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	3
4	0.00	0.00	Structures	Erosion / Bank Caving		A	Inspector Comments: No active erosion or active bank caving was observed around the structure.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	4
5	0.00	0.00	Structures	Revetments		N	Inspector Comments: No riprap was present at this structure.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	5
6	0.00	0.00	Structures	Encroachments		M	Inspector Comments: Minimal debris was found on outlet of the structure.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	6 Y
7	0.00	0.00	Structures	Culverts: Inlets / Outlets		M	Inspector Comments: Vegetation was blocking less than 10% of the culverts opening.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	7 Y
8	0.00	0.00	Structures	Culverts: Breaks / Holes / Cracks		A	Inspector Comments: There were no visible breaks, holes or cracks were detected in the culvert.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	8
9	0.00	0.00	Structures	Metal Pipes		A		39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	9
10	0.00	0.00	Structures	Trash Racks		N	Inspector Comments: This item does not apply to this inspection.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	10
11	0.00	0.00	Structures	Flap Gates		A	Inspector Comments: The flap gates appeared to be in working condition.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	11 Y
12	0.00	0.00	Structures	Sluice/Slide Gates		N	Inspector Comments: This item does not apply to this inspection.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	12
13	0.00	0.00	Structures	Electric Gate Operators		N	Inspector Comments: This item does not apply to this inspection.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	13
14	0.00	0.00	Structures	Manual Gate Operators		A	Inspector Comments: Manual gate operator appeared to be in good working condition.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	14

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure						Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure							07/25/2012 07/25/2012	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
15	0.00	0.00	Structures	Concrete Surfaces		A	Inspector Comments: There were minimal cracking and scaling on the concrete structure but it didn't threaten the structural integrity.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	15 Y
16	0.00	0.00	Structures	Concrete Tilting / Settlement		A	Inspector Comments: There was no settlement or tilting observed that threaten the structure.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	16
17	0.00	0.00	Structures	Concrete Foundations		A	Inspector Comments: No scouring or erosion was found near the structure.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	17
18	0.00	0.00	Structures	Security Fencing		N	Inspector Comments: This item does not apply to this inspection.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	18
19	0.00	0.00	Structures	Closure Structures		A	Inspector Comments: Closure structure was in good condition.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	19
20	0.00	0.00	Structures	Trash Rakes		N	Inspector Comments: This item does not apply to this inspection.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	20
21	0.00	0.00	Structures	Other Metallic Items		N	Inspector Comments: This item does not apply to this inspection.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	21
22	0.00	0.00	Structures	Monolith Joints		A	Inspector Comments: The monolith joints material were in good condition.	39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	22
23	0.00	0.00	Structures	Safety		A		39.126317 ° -122.882733 °	39.126317 ° -122.882733 °	23

*** Location**

LS : Land Side
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CR : Crown

**** Rating**

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PO : Partially Obstructing
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N : Not Inspected, see Inspector Comment
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure		07/25/2012 07/25/2012	Pavel Kazi

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Photo Documentation

View of the weir.

pkazi_t_20120813_192.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions

View of the vegetation growth on the inlet of the structure.

pkazi_t_20120813_193.jpg



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Vegetation & Obstructions

View of vegetation on the outlet of the structure.

pkazi_t_20120813_194.jpg

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure		07/25/2012 07/25/2012	Pavel Kazi

Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Encroachments

View of the debris at the culvert outlet.

pkazi_t_20120813_199.jpg



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Culverts: Inlets / Outlets

View of the culvert inlet.

pkazi_t_20120813_195.jpg



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Flap Gates

View of the flap gate.

pkazi_t_20120813_197.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2012

Lake County Watershed Protection District

Structure	Structure Length	Inspection Start/End	Inspector
Highland Canal Diversion Weir And Drainage Structure		07/25/2012 07/25/2012	Pavel Kazi

Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Structures
Item	Concrete Surfaces

View of the concrete structure.

pkazi_t_20120813_198.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected